NNN	NNN	111111111	***************************************	NNN NNI	FFFFFFFFFFFF
NNN	NNN	*******	2222222222	NNN NNI	
NNN	NNN	111111111	5555555555	NNN NNI	
NNN	NNN	iii	CCC	NNN NN!	FFF
NNN	NNN	iii	ččč	NNN NNI	
NNN	NNN	III	ččč	NNN NNI	
NNNNNN	NNN	III	ČČČ	NNNNNH NNI	
NNNNNN	NNN	111	CCC	NNNNN NNI	FFF
NNNNNN	NNN	111	CCC	NNNNN NNI	
NNN NNN		111	CCC	NNN NNN NNI	FFFFFFFFFF
NNN NNN		III	CCC	NNN NNN NNI	
NNN NNN		III	CCC	NNN NNN NNI	
	NNNNN	111	CCC	NNN NNNNNI	
	NNNNN	III	CCC	NNN NNNNN	
	NNNNN	III	CCC	NNN NNNNN	
NNN	NNN	III	CCC	NNN NNI	
NNN	NNN	111	CCC	NNN NNI	
NNN	NNN	!!!	CCC	NNN NNI	
NNN	NNN	IIIIIIIII	ccccccccc	NNN NNI	
NNN	NNN	111111111	2222222222	NNN NNI	
NNN	NNN	111111111	2222222222	NNN NNI	FFF

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00000000 00000000 00000000 00000000000	NN	######################################	000000 00 00 00 00	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	KK	QQQQQQ QQ QQ QQ QQ QQ QQ QQ QQ QQ QQ QQ
		\$				

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VAX-11 Bliss-32 V4.0-742 [NICNF.SRC]CNFWORKQ.B32;1

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```
CNFWORKQ
V04-000
                                                                                                                            VAX-11 Bliss-32 V4.0-742
[NICNF.SRC]CNFWORKQ.B32;1
                                  GLOBAL ROUTINE wkq$add_work_item (action_routine, arg1, arg2, arg3) =
    901234567899011034567890111234567
                                             This routine adds a single work item to the work queue. A $WAKE is performed for the first work item added.
                                    Inputs:
                                             action routine = Address of routine to call to perform work. arg1/273 = Arguments to be passed to action routine when called.
                                    Outputs:
                                             routine = status code
                                 BEGIN
                                 LOCAL
                                                                                             Length of allocate/deallocation
                                       length.
                                                                                           ! Address of work queue entry
                                                        REF BBLOCK:
                                       entry:
                                                                                          ! Length of a work queue entry
)); ! Allocate entry
                                 length = wqe$c_length;
return_if_error(CNF$GET_ZVM(length,entry));
                                 entry [wqe$l_pc] = .action_routine;
entry [wqe$l_arg1] = .arg1;
entry [wqe$l_arg2] = .arg2;
entry [wqe$l_arg3] = .arg3;
                                                                                            Store address of action routine then store 3 arguments
    118
119
120
121
122
123
124
125
126
127
                                                                                          ! assume all arguments must be given
                                                                                          ! Queue entry at tail of list
                                  IF INSQUE(.entry, .work_queue [1])
                                       $WAKE():
                                                                                          ! If first, wakeup process
                                 RETURN true;
                                 END:
                                                                                                         .TITLE
                                                                                                                   CNFWORKQ
                                                                                                         . IDENT
                                                                                                                   \V04-000\
                                                                                                         .PSECT SOWNS, NOEXE, 2
                                                        00000000' 00000000' 00000 WORK_QUEUE:
                                                                                                         ADDRESS WORK_QUEUE, WORK_QUEUE
                                                        00000000, 00000000, 00008 LIMED ANER:
                                                                                                         .ADDRESS TIMED_QUEUE, TIMED_QUEUE
                                                                                                        .EXTRN CNFSGET_ZVM, CNFSFREE_VM
.EXTRN SYSSWAKE
                                                                                                         .PSECT $CODE$, NOWRT, 2
                                                                                                                                                                                  : 0279
                                                                             00000 00000
                                                                                                         ENTRY
                                                                                                                   WKQ$ADD_WORK_ITEM, Save nothing
                                                                                                        SUBL 2
                                                       5E
                                                                                                                   #8, SP
```

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000 000 000 7F1 7F1 7F1

CNFWORKQ V04-000					16-Sep 14-Sep	-1984 02:07 -1984 12:49	:44	VAX-11 Bliss-32 V4.0-742 ENICHF.SRCJCNFWORKQ.B32;1	Page (3)
	04 000000006 08 10 0000*	AE 00 20 50 AO DF	08 04 00	1 CEEE200 SEC ACC 0 0 7 C 2 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1	DO 00005 DD 00009 9F 0000B FB 0000E E9 00015 DO 00018 7D 00018 7D 00020 0E 00025 12 0002A 7C 0002C FB 0002E DO 00035 1\$:	MOVL PUSHAB CALLS BLBC MOVL MOVQ INSQUE BNEQ CLRQ CALLS MOVL RET	STATUS ENTRY, ACTION ARG2, (RO), 1\$ -(SP)	NF\$GET_ZVM S, 2\$ N_ROUTINE, 8(RO) T6(RO) awork_Queue+4	0303 0303 0303 0303 0313 0314 0314

; Routine Size: 57 bytes. Routine Base: \$CODE\$ + 0000

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CNFWORKQ
V04-000
                                                                                                              VAX-11 Bliss-32 V4.0-742
[NICNF.SRC]CNFWORKQ.B32;1
                                                                                                                                                                 (4)
                              GLOBAL ROUTINE wkg$do_work_item =
   This routine dequeues the next work item to be performed and calls the action routine associated with the item.
                                Inputs:
                                        None
                                Outputs:
                                        routine = True if successful, false if nothing in queue
                              BEGIN
                              LOCAL
                                   length,
                                                                                  Length of work queue entry
                                   entry:
                                                  REF BBLOCK:
                                                                                ! Address of entry in queue
                              If REMQUE(.work_queue [0], entry)
                                                                                ! Remove first entry from queue
                              THEN
                                   RETURN false:
                                                                                ! If none, return unsuccessful
                              length = wqe$c_length;
CNF$FREE_VM(length, entry);
                                                                                ! Deallocate entry
                              RETURN true:
                              END:
                                                                          00000
00002
00005
0000A
0000C
                                                                                            ENTRY
SUBL2
REMQUE
                                                                                                      WKQ$DO_WORK_ITEM, Save nothing #4, SP
aWORK_QUEUE, ENTRY
                                                                                                                                                                0317
                                                 5E
7E
                                                                                                                                                                0339
                                                          0000
                                                                  D2600315E01
                                                                                             BVS
                                                                                                      ENTRY, RO
16(RO), -(SP)
12(RO)
                                                                       70
                                                 50
7E
                                                            10
00
                                                                                             MOVQ
                                                                       DD
                                                                                             PUSHL
                                                                       FB
                                                 BO
                                                                                                       #3, 88(RO)
#28, LENGTH
                                                                                             CALLS
```

DD 9 F B O O 4

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0000000G

MOVL

PUSHL

MOVL RET

CLRL

RO

PUSHAB CALLS

LENGTH #2, CNF\$FREE\_VM #1, RO

0346

0349

0351

VAX-11 Bliss-32 V4.0-742 [NICNF.SRC]CNFWORKQ.B32:1 CNFWORKQ V04-000 Page (4) ; Routine Size: 49 bytes, Routine Base: \$CODE\$ + 0039 164 165 166 PSECT SUMMARY Attributes Bytes Name NOVEC, WRT, RD , NOEXE, NOSHR, LCL, NOVEC, NOWRT, RD , EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) SOUNS \$CODE\$ Library Statistics ----- Symbols -----Pages Processing File Total Loaded Percent Time Mapped \$255\$DUA28:[SYSLIB]STARLET.L32;1 9776 7 581 00:01.1 COMMAND QUALIFIERS BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: CNFWORKQ/OBJ=OBJ\$: CNFWORKQ MSRC\$: CNFWORKQ/UPDATE=(ENH\$: CNFWORKQ) 106 code + 16 data bytes 00:05.0 00:10.6 Size: Run Time: Elapsed Time: 00:10. Lines/CPU Min: 4248 Lexemes/CPU-Min: 16500 Memory Used: 53 pages Compilation Complete

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